

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-199855

(43)Date of publication of application : 19.07.1994

(51)Int.Cl.

C07D471/04
A61K 31/435
A61K 31/435
A61K 31/435
A61K 31/435

(21)Application number : 04-361543

(71)Applicant : NIPPON NOHYAKU CO LTD

(22)Date of filing : 31.12.1992

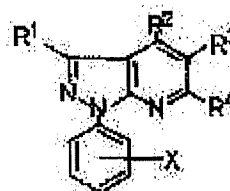
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(54) PYRAZOLOPYRIDINE DERIVATIVE AND PLATELET AGGREGATION INHIBITOR CONTAINING SAME

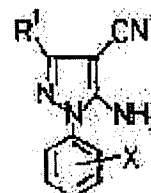
(57)Abstract:

PURPOSE: To provide a novel compound useful for circulatory organ disorders such as cardiac infarction, pulmonary embolism, peripheral arterial embolism, cerebral thrombosis, and cerebral infarction.

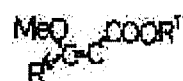
CONSTITUTION: The compound of formula I (R¹ is H, lower alkyl, phenyl, etc.; R² is halogen, hydroxy, lower alkoxy, etc.; R³ is H, lower alkyl, carbamoyl, etc.; R⁴ is lower alkyl, (substituted)phenyl, pyridyl, etc.; X is H, halogen, lower alkyl, lower alkoxy), e.g. 4-amino-1-(4-chlorophenyl)-6-1H-pyrazolo[3,4- b]pyridine-5-carboxylic acid ethyl ester. The compound of formula II is obtained by reacting a compound of formula I with a compound of formula III (R¹¹ is lower alkyl; Me is methyl) in the presence of a Lewis acid in a solvent (e.g. toluene) at -20 to 150°C and subsequently reacting the produced compound of formula IV in the presence of a base (e.g. sodium methoxide) at -78 to 30°C.



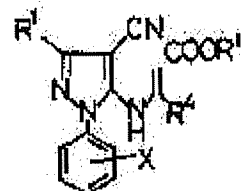
I



II



III



IV